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JAPANESE PATENT OFFICE

## PATENT ABSTRACTS OF JAPAN

(11)Publication number: 07311560

(43)Date of publication of application: 28.11.1995

(51)Int. Cl.

G09G 3/32

G09G 3/20

H01L 33/00

(21)Application number: 06128148

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(22)Date of filing: 17.05.1994

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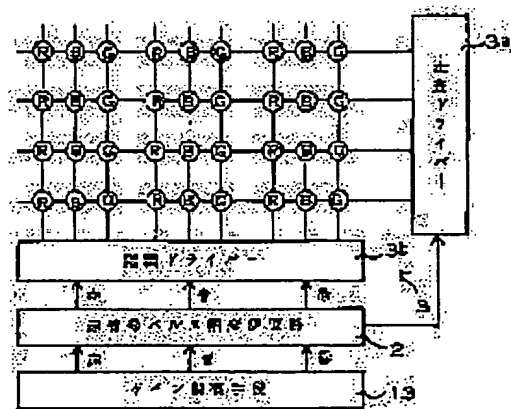
NAGAI YOSHIFUMI

(54) MULTICOLOR LED DISPLAY UNIT

(57)Abstract:

**PURPOSE:** To provide a multicolor display unit which can eliminate luminance nonuniformity of LED using a simple circuit consitution.

**CONSTITUTION:** The multicolor display unit is provided with a plurality of LEDs which are arranged close to each other and emit different luminous colors and an LED lighting circuit which flashes each LED and adjusts its lummoous color and brightness. The LED lighting circuit is provided with a pulse width modulation circuit 2 which outputs pulses corresponding to input gray level data and an LED drive circuit 3 that lights LEDs by output pulses of the pulse width modulation circuit 2 which nonlinearly modulates output pulse widths in accordance with input gray level data.



LEGAL STATUS

[Date of request for examination]	07.01.1998
[Date of sending the examiner's decision of rejection]	
[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]	
[Date of final disposal for application]	
[Patent number]	2917816
[Date of registration]	23.04.1999
[Number of appeal against examiner's decision of rejection]	
[Date of requesting appeal against examiner's decision of rejection]	
[Date of extinction of right]	

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